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649,025
CURTAIN COATING PROCESS
Donald Eliseo Gonzalez, Newark, N.J., assignor to Eastman Kodak Company, Rochester, N.Y., a corporation of New Jersey
Filed June 26, 1967, Published Apr. 22, 1960

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Class 99—169
No Drawing. 12 Pages Specification
Process for curtain coating substrates or articles to
prepare coated substrates or packaged articles employing
a curtain coating composition having a melt viscosity at
375° F. of 10,000–125,000 cp. and comprising (a) 75–
100 percent of an ethylene/vinyl acetate copolymer (55–
95 percent ethylene/5-45 percent vinyl acetate) having a
melt index of 66–825 g./10 min.; (b) 0–25 percent of a
paraffin wax melting at 95°–160° F.; and (c) 0–20 percent of a mineral oil.

degussa.

Coatings & Colorants

VESTOPLAST®

Amorphous Poly-alpha-olefins

Adhesive raw materials for hot melt applications

Product Range

34.19.105e / 02.02

Propene-rich VESTOPLAST grades (page 1) Butene-rich VESTOPLAST grades (page 2)



Areas of application (page 3)



VESTOPLAST® = registered trademark of Degussa AG

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Degussa AG

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Properties of VESTOPLAST

			VESTOPLAST Propene-rich	AST ch								VESTOPLAST Silane modified
Mechanical, thermal, caloric properties	Measurement method	Unit	703	704	708	750	751	792	828	888	891	206
Melt viscosity at 190 °C	DIN 53 019, modified	mPa·s	2,700± 700	3,500 ± 500	8,000 ± 2,000	50,000 ± 10,000	50,000± 10,000	120,000 ± 30,000	25,000 ± 7,000	120,000 ±	115,000 ± 35,000	5,000 ± 1,000
Softening point (ring & ball)	DIN EN 1427, modified	ပံ့	124 ± 6 ·	105 ± 5	106 ± 4	107 ± 4	99 ± 4	108 ± 4	161 ± 4	161±5	162 ± 4	98 ± 4
Needle penetration (100/25/5)	DIN EN 1426, modified	0.1 mm	12±3	23±5	19±3	14±3	25±3	14±3	22 ± 3	16±4	22 ± 4	19±3
Thermal stability under load	Degussa method, similar to WPS 68 (5 °C/h, weight 450 g)	ů	75-80	70-75	85-90	85-90	70-75	90-95	95-100	115-120	105-110	n.d.
Tear strength Elongation at break	DIN EN ISO 527-3, modified type 5	MPa (former N/mm²) %	2.1	0.5 100	1.0	5.0	1.5	5.8	1.0	2.5 850	2.0	1,9
Shear modulus at 23°C	DIN EN ISO 6721-2	MPa	41	7.5	4	14	2	7	7	6.5	6	n.d.
Molecular weight M _n M _w	GPC, DIN 55 672, modified	g/mol	7,300	8,000 35,000	11,500	18,100 92,000	18,800 88,000	23,800 118,000	13,200	15,000 104,000	18.800 85,000	10,600
Open time	Degussa method AA-CO-RE-AA-TS2-05	s resp. min	15.8	80 s	55.s	s 09 ·	30 min	2 min 30 s	70.S	4 s	40's	approx. 20 s
Setting time	Degussa method AA-CO-RE-AA-TS2-29	Ø	▼ (a)	₹-	· 	-		-	5	_	Σ	арргох. б
Glass transition temperature T _g	DSC analysis, DIN 53 765, modified Degussa meth. AN-SAA-0663	ů	-28	- 36	- 33	- 33	(1915) au (1916) (292) (293) (1916) (1916) (1916)	- 27	- 35	- 36	- 33	- 28
Density at 23 °C	DIN 53 479	g/cm³	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	98.0	0.87
Shore hardness A	DIN 53 505	_	. 87	n. d.	67	75	43	n.d.	52	n. d.	p u	n.d.
n. d.: not determined												

Properties of VESTOPLAST

-			VESTOPLAST Butene-rich				
Mechanical, thermal, caloric properties	Measurement method	Unit	308	408	508	520	809
Melt viscosity at 190 °C	DIN 53 019, modified	mPa·s	8,000± 2,000	8,000± 2,000	8,000 ± 2,000	22,000 ± 4,000	9,000 ± 3,000
Softening point (ring & ball)	DIN EN 1427, modified	ပံ	136 ± 6	118 ± 4	84 ± 4	87 ± 4	157 ± 4
Needle penetration (100/25/5)	DIN EN 1426, modified	0.1 mm	17 ± 3	5±2	14:±3	14 ± 3	18±3
Thermal stability under load	Degussa-Hüls method, similar to WPS 68 (5 °C/h, weight 450 g)	ပ့	65-70	85-90	60-65	65-70	60-65
Tear strength Elongation at break	DIN EN ISO 527-3, modified type 5	MPa (former N/mm²) %	1.5	6.8 80	1.5 340	2.4	1.5
Shear modulus at 23°C	DIN EN ISO 6721-2	МРа	4.	70	12	7	÷
Molecular weight M _n M _w	GPC, DIN 55 672, modified	lom/g	11,300	11,600 48,000	11,800	13,900 63,000	12,300 46,000
Open time	Degussa method AA-CO-RE-AA-TS2-05	s resp. min	4 min	65 s	15 min	15 min	3 min
Setting time	Degussa method AA-CO-RE-AA-TS2-29	w		_	3	_	V
Glass transition temperature T _g	DSC analysis, DIN 53 765, modified Degussa meth. AN-SAA-0663	ပ်	: 29	- 27	1 - 31	- 29	-32
Density at 23 °C	DIN 53 479	g/cm³	28:0	06.0	78.0	0.88	0.87
Shore hardness A	DIN 53 505	1	.p.u	94	7.4	92	7.6
n. d.: not determined							

VESTOPLAST areas of application

Hot melt adhesives for

- nonwoven and hygienic applications
- paper and packaging
- woodworking
- bookbinding
- structural adhesive
- textile applications

Bitumen modification for

- waterproofing membranes
- road construction

Heavy coating compounds and hot melt adhesives for

- pre-shaped car carpets
- loose laid carpet tiles
- cable filling
- road marking